

ANSWERS: Crystal ball questions on predicting Entropy change

1) $\text{H}_2\text{O (s) at } 0\text{ }^\circ\text{C} > \text{H}_2\text{O (l) at } 0\text{ }^\circ\text{C} > \text{H}_2\text{O (l) at } 25\text{ }^\circ\text{C} > \text{H}_2\text{O (l) at } 100\text{ }^\circ\text{C} > \text{H}_2\text{O (g) at } 100\text{ }^\circ\text{C}$

2) The following reactions had an increase in Entropy change.

Reaction 3

Reaction 4

Reaction 5

Reaction 6

Reaction 1 had no change in Entropy and the other reactions had a decrease in Entropy.